Exhibit 12

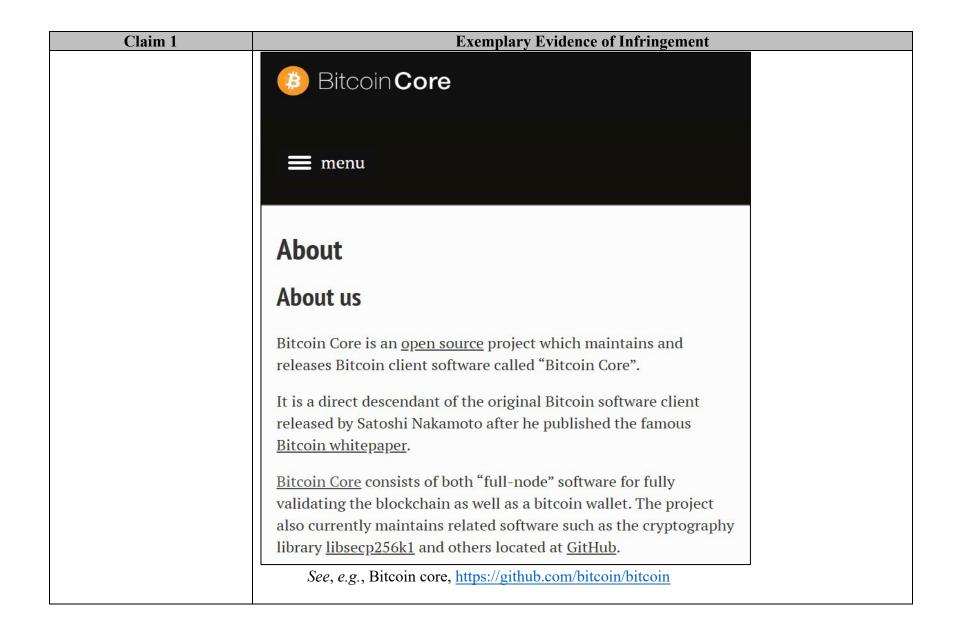
Exhibit 12: U.S. Patent No. 8,532,286

| Claim 1 | Exemplary Evidence of Infringement |
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| [1pre] A method for | MARA Holdings, Inc. (hereinafter "MARA") performs, on a cryptographic apparatus (e.g., a |
| performing, on a | processor), a Montgomery-style reduction in a cryptographic operation (e.g., during the transfer of |
| cryptographic apparatus, a | Bitcoin to an address). See, e.g.: |
| Montgomery-style reduction | |
| in a cryptographic operation, | "Marathon is a digital asset technology company that is principally engaged in producing or |
| the method comprising: | 'mining' digital assets with a focus on the Bitcoin ecosystem The term 'Bitcoin' with a |
| | capital 'B' is used to denote the Bitcoin protocol which implements a highly available, public, |
| | permanent, and decentralized ledger." (Emphasis added) |
| | See, e.g., MARA Holdings, Inc., Annual report pursuant to Section 13 and 15(d), (Form 10-K/A), at F-9, filed May 24, 2024, available at https://ir.mara.com/sec-filings/all-sec-filings/content/0001628280-24-025261/mara-20231231.htm . |
| | "The Bitcoin protocol is the technology that enables Bitcoin to function as a decentralized, peer-to-peer payment network. This open-source software, which sets the rules and processes that govern the Bitcoin network, is maintained and improved by a community of developers around the world known as Bitcoin Core developers 'At Marathon, we have historically focused on supporting Bitcoin by adding hash rate, which helps secure the network, and now, we are supporting those who maintain the open-source protocol on which we all depend by contributing to Brink,' said Fred Thiel, Marathon's chairman and CEO." (Emphasis added) |
| | See, e.g., Marathon Holdings Collaborates with Brink To Raise Up to \$1 Million To Support Bitcoin Core Developers, GlobeNewswire (May 18, 2023), available at https://www.globenewswire.com/news-release/2023/05/18/2672276/0/en/Marathon-Digital-Holdings-Collaborates-with-Brink-To-Raise-Up-to-1-Million-To-Support-Bitcoin-Core-Developers.html . |
| | "The MaraPool wallet (Owned by the Company as Operator) is recorded on the distributed ledger as the winner of proof-of-work block rewards and assignee of all validations and, therefore, the transaction verifier of record. The pool participants entered into contracts with the Company as |
| | Operator; they did not directly enter into contracts with the network or the requester and were not |

| Claim 1 | Exemplary Evider | nce of Infringement | |
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| | known verifiers of the transactions assigned to the | 1 , 1 , | |
| | controlled the service of providing transaction ver | | - |
| | Accordingly, the Company recorded all of the | | |
| | transactions assigned to the MaraPool as reven block rewards remitted to the MaraPool partic | | |
| | block rewards remitted to the Marar our partic | ipants as cost of revenues. (Er | iipiiasis added). |
| | See, e.g., MARA Holdings., Inc., Quarterly November 12, 2024, available at <a bitcoin="" have="" href="https://www.ntp</th><th>ww.sec.gov/ix?doc=/Archives/ed</th><th>-</th></tr><tr><th></th><th>4,741 transactions</th><th>«« « 1 2</th><th>3 4 5 » »»</th></tr><tr><th></th><th>167b84c590afb6cd8984ff1a39864afa74ffcabd650fa8584c2011bc0e4ccb3f</th><th></th><th>2025-02-21 07:58:50</th></tr><tr><th></th><th>Coinbase (Newly Generated Coins)</th><th>15MdAHnkxt9TMC2Rj595hsg8Hnv693pPBB</th><th>3.15717950 втс 🕣</th></tr><tr><th></th><th>⊠⊠⊠g MARA Made in USA ■ v02mm(T∭NJ)d%h⊠Ceww⊠ 6>⊠⊠}Rj</th><th>OP_RETURN : \$77,>⊠*⊠y 5,<uk⊠</th><th>0.00000000 BTC ● 3.15717950 BTC</th></tr><tr><th></th><th>See, e.g., https://mempool.space/address/1</th><th>5MdAHnkxt9TMC2Rj595hsg8H</th><th>Hnv693pPBB.</th></tr><tr><th></th><th>For example, MARA performs, on a cryptographic style reduction in a cryptographic operation (<i>e.g.</i>, the ECDSA signature protocol in the Bitcoin Core</th><th>during the transfer of Bitcoin to</th><th></th></tr><tr><th></th><th>" messages="" parts,="" signed="" three="" which<br="">The message is the actual message text - all kinds avoid using non-ASCII characters in the signature character sets, preventing signature verification from | of text is supported, but it is rece because they might be encoded | ommended to |
| | The address is a legacy, nested segwit, or native so addresses was added by Satoshi himself and there | | 0 |

| Claim 1 | Exemplary Evidence of Infringement |
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| | segwit addresses has been added by BIP137 The Signature is a base64-encoded ECDSA |
| | signature that, when decoded, with fields described in the next section." (Emphasis added) |
| | See, e.g., Message Signing, https://en.bitcoin.it/wiki/Message_signing . |
| | "This document describes a signature format for <u>signing messages with Bitcoin private keys</u> . |
| | The specification is intended to describe the standard for signatures of messages that can be signed and verified between different clients that exist in the field today." (Emphasis added) |
| | See, e.g., Bitcoin BIP137, https://github.com/bitcoin/bips/blob/master/bip-0137.mediawiki. |
| | For example, MARA uses Bitcoin Core, which comprises a method of performing, on a cryptographic apparatus (<i>e.g.</i> , a processor), a Montgomery-style reduction in a cryptographic operation (<i>e.g.</i> , during the transfer of Bitcoin to an address). <i>See</i> , <i>e.g.</i> : |
| | Marathon Digital Holdings, Inc. (NASDAQ:MARA) ("Marathon" or |
| | "Company"), one of the largest enterprise Bitcoin self-mining companies in North |
| | America, announced that the Company's Bitcoin mining pool, MaraPool, has |
| | adopted and implemented Bitcoin Core version 0.21.1. |
| | Bitcoin Core version 0.21.1 is the latest update to the Bitcoin client software, which |
| | is maintained and updated by a large open-source developer community that |
| | collaborates to launch new features and fixes. This latest update contains a variety |
| | of features, including the Taproot soft fork, which are designed to improve privacy, |
| | improve scalability, and lay the groundwork for future enhancements to Bitcoin's |
| | functionality. According to the official release from Bitcoin Core: |

| Claim 1 | Exemplary Evidence of Infringement |
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| | "Marathon is committed to the core tenets of the Bitcoin community, including |
| | decentralization, inclusion, and no censorship," said Fred Thiel, Marathon's CEO. |
| | "Over the coming week, we will be updating all our miners to the full standard |
| | Bitcoin core 0.21.1 node, including support for Taproot. By adopting the full |
| | standard Bitcoin core node, we will be validating transactions on the blockchain in |
| | the exact same way as all other miners who use the standard node. We look |
| | forward to continue being a collaborative and supportive member of the Bitcoin |
| | community and to realizing the vision of Bitcoin as the first decentralized, peer-to- |
| | peer payment network that is powered by its users rather than a central authority or |
| | middlemen." |
| | See, e.g., https://br.advfn.com/bolsa-de-valores/nasdaq/MARA/share- |
| | news/85244958/marathon-signals-for-taproot. |
| | |



| Claim 1 | Exemplary Evidence of Infringement |
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| | For example, during signature generation and verification a cryptographic operation (e.g., |
| | secp256k1_scalar_mul) is invoked by the cryptographic apparatus (e.g., a processor). See, e.g.: |
| | <pre>static int secp256k1_ecdsa_sig_recover(const secp256k1_scalar *sigr, constsecp256k1_scalar* sigs, secp256k1_ge *pubkey, const secp256k1_scalar *message, int recid) {</pre> |
| | ; secp256k1_scalar_mul(&u2, &rn, sigs);; |
| | <pre>secp256k1_scalar_mul(&u2, &rn, sigs);</pre> |
| | ····; } |
| | See, e.g., src/secp256k1/src/modules/recovery/main_impl.h |
| | <pre>static int secp256k1_ecdsa_sig_sign(const secp256k1_ecmult_gen_context *ctx, secp256k1_scalar *sigr, secp256k1_scalar *sigs, const secp256k1_scalar *seckey, const secp256k1_scalar *message, const secp256k1_scalar *nonce, int *recid) {</pre> |
| | secp256k1_scalar_mul(&n, sigr, seckey);; |
| | <pre>secp256k1_scalar_mul(sigs, sigs, &n);; }</pre> |
| | See, e.g., src/secp256k1/src/ecdsa_impl.h |
| | MARA performs the method using a cryptographic apparatus. See, e.g.: |
| | "Our core business is bitcoin mining, and we produce, or 'mine,' bitcoin using one of the industry's largest and most energy-efficient fleets of specialized computers while providing dispatchable compute as an optionality to the electric grid operators to balance electric demands on the grid." (Emphasis added) |
| | See, e.g., MARA Holdings, Inc., Form 10-K/A, at 6, filed March 3, 2025, available at https://ir.mara.com/sec-filings/all-sec-filings/content/0001628280-24-025261/mara-20231231.htm . |

| Claim 1 | Exemplary Evidence of Infringement |
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| | "Over the past three years, digital asset mining operations have evolved from individual users mining with <u>computer processors</u> , <u>graphics processing units and first-generation mining rigs</u> . New processing power brought onto the digital asset networks is predominantly added by professionalized mining operations, which may use <u>proprietary hardware or sophisticated machines</u> ." (Emphasis added) |
| | See, e.g., MARA Holdings, Inc., Form 10-K/A, at 21, filed March 3, 2025, available at https://ir.mara.com/sec-filings/all-sec-filings/content/0001628280-24-025261/mara-20231231.htm . |
| | "As of December 31, 2024, we operated approximately 400,000 bitcoin mining <u>ASICs</u> , capable of producing 53.2 EH/s with an efficiency of 19.2 joules per terahash, which is among the most efficient in the industry." (Emphasis added) |
| | See, e.g., MARA Holdings, Inc., Form 10-K/A, at 21, filed March 3, 2025, available at https://ir.mara.com/sec-filings/all-sec-filings/content/0001628280-24-025261/mara-20231231.htm . |
| | "Miners, which operate <u>specialized hardware, known as bitcoin mining rigs or application-</u> <u>specific integrated circuits ("ASICs")</u> , then compete to process these unconfirmed transactions into a 'block." (Emphasis added) |
| | See, e.g., MARA Holdings, Inc., Form 10-K/A, at 6, filed March 3, 2025, available at https://ir.mara.com/sec-filings/all-sec-filings/content/0001628280-24-025261/mara-20231231.htm . |
| [1a] obtaining an operand for the cryptographic operation; | MARA obtains an operand for the cryptographic operation; computes a modified operand using a reduction value, instead of a modulus used in performing a standard Montgomery reduction, to perform a replacement of a least significant word of the operand, rather than perform a cancellation thereof, the reduction value being a function of the modulus; and outputs the modified operand. <i>See</i> , <i>e.g.</i> : |

| Claim 1 | Exemplary Evidence of Infringement |
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| [1b] computing a modified operand using a reduction value, instead of a modulus used in performing a standard Montgomery reduction, to perform a replacement of a least significant word of the operand, rather than perform a cancellation thereof, the reduction value being a function of the modulus; and [1c] outputting the modified operand. | Exemplary Evidence of Infringement For example, operand l is 8 machine words, reduced operand r is 4 machine words. See, e.g.: /** Set a scalar to an unsigned integer. */ static void secp256k1_scalar_set_int(secp256k1_scalar *r, unsigned int v); See, e.g., src/secp256k1/src/scalar.h /* Limbs of the secp256k1 order. */ #define SECP256k1_N_0 ((uint64_t)0xBFD25E8CD0364141ULL) #define SECP256k1_N_1 ((uint64_t)0xBFDEFFFFFFFFFFFULL) #define SECP256k1_N_2 ((uint64_t)0xFFFFFFFFFFFFULL) #define SECP256k1_N_2 ((uint64_t)0xFFFFFFFFFFFULL) /* Limbs of 2^256 minus the secp256k1 order. */ #define SECP256k1_N_C_1 (~SECP256k1_N_1) #define SECP256k1_N_C_1 (~SECP256k1_N_1) #define SECP256k1_N_C_2 (1) SECP256k1_INLINE static void secp256k1_scalar_set_int(secp256k1_scalar *r, unsigned int v) { r->d[0] = v; r->d[1] = 0; r->d[2] = 0; r->d[3] = 0; r->d[3] = 0; r->d[3] = 0; r->d[3] = 0; r->d[4] = 0; r->d[5] = 0; r->d[6] = 0; r->d[7] = 0; r->d[8] = 0; r->d[9] = 0; r->d[9] = 0; r->d[9] = 0; r->d[1] = 0; r->d[1] = 0; r->d[1] = 0; r->d[2] = 0; r->d[3] = 0; r->d[4] = 0; r->d[5] = 0; r->d[6] = 0; r->d[7] = 0; r->d[8] = 0; r->d[8] = 0; r->d[9] = 0; r->d[|
| | See, e.g., src/secp256k1/src/scalar_4x64_impl.h (see also code in "scalar_8x32_impl.h") |

| Claim 1 | Exemplary Evidence of Infringement |
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| Claim 1 | For example, operand 1 is reduced until it fits in p[04], which is further reduced into r. See, e.g.: SECP256K1_INLINE static int secp256k1_scalar_reduce_512(secp256k1_scalar *r, const uint64_t *1) { |
| | <pre>secp256k1_uint128 c128;; uint64_t n0 = 1[4], n1 = 1[5], n2 = 1[6], n3 = 1[7];; /* Reduce 512 bits into 385. */ /* m[06] = 1[03] * SECP256K1_N_C. */</pre> |
| | ; /* <u>Reduce</u> 385 bits into 258. */ /* p[04] = m[03] + m[46] * SECP256K1_N_C. */ ; /* <u>Reduce</u> 258 bits into 256. */ /* r[03] = p[03] + p[4] * SECP256K1_N_C. */ |
| | /* <u>r[03]</u> = p[03] + p[4] * SECP256K1_N_C. */ secp256k1_u128_from_u64(&c128, p0); secp256k1_u128_accum_mu1(& <u>c128</u> , <u>SECP256K1_N_C_0</u> , p4); <u>r->d[0]</u> = secp256k1_u128_to_u64(& <u>c128</u>);; } |
| | See, e.g., src/secp256k1/src/scalar_4x64_impl.h (see also code in "scalar_8x32_impl.h") |